Technical Attachment

NWS Weather Event Simulator Available Case Studies

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Southern Region Cases

Below is the list of Southern Region locally-developed case studies compatible with the Weather Event Simulator (WES) which are available for immediate distribution. This means the localization has been developed to support the WES, the files have been broken into CD-size pieces, and a locally-developed Simulation Guide is available. Contact SSD to receive copies of these cases.

Sep 14, 2001	Melbourne, FL	Tropical cyclone induced tornadoes.
Nov 15, 2001	Austin/San Antonio	Severe thunderstorms and flooding.
Nov 23-24, 2001	Tulsa, OK	Severe thunderstorms and tornadoes.
Nov 27, 2001	Lubbock, TX	Winter weather. *An interval-based simulation with emphasis on identification of synoptic and meso-scale forcing.*
Dec 16-17, 2001	Little Rock, AR	Flooding and flash flooding.
Apr 7, 2002	San Angelo, TX	Tornadic supercells, large hail, wind damage and flash flooding.
Apr 29, 2002	Mobile, AL	A subtle synoptic forcing event with emphasis on diagnosing synoptic forcing to predict time and location of initiation of deep convection. *Includes suggested AWIPS D2D procedure that emphasize use of the forecast funnel technique across several scales of motion.*
Mar 15, 2002	Jackson, MS	Severe thunderstorms. *This case focuses on warning composition and the correct use of WARNGEN.*
May 1, 2002	Atlanta, GA	Northwest Georgia Bow echo.
May 13, 2002	Nashville, TN	Severe thunderstorms.
May 27, 2002	Midland, TX	Texas dryline storms.
Jun 28-29, 2000	Brownsville, TX	Heavy rainfall and flooding.
Jul 7, 2002	New Orleans, LA	Wet microbursts.

Nationally Distributed Cases

The following are nationally distributed case studies compatible with the Weather Event Simulator (WES) that are available for immediate distribution. Detailed Simulation Guides for these cases have been developed by the NWS Warning Decision Training Branch and COMET. A WES localization is included and the files have been broken into CD-size pieces.

AWIPS Cases Available for Immediate Distribution

A list of available cases can be found at *http://www.comet.ucar.edu/resources/cases/wes/index.htm*.

8 April 1998	Birmingham Tornado (BMX localization).
31 May 1998	Albany Tornado (ALY localization).
29 June 1998	Iowa Bow Echo (DMX localization).
11 Aug 1999	Salt Lake City Tornado (SLC localization).

(All WFOs received one of the above cases with the Weather Event Simulator software.)

10-11 April 2001	Great Plains tornado outbreak (GID localization).
24 January 2000	East Coast Explosive Cyclogenesis (two localizations are available: RAH and LWX).
28 March 1998	Fort Worth Tornado (FWD localization).
8 June 2001	Tropical Storm Allison (HGX localization).
9 August 2000	Fire Weather Dry Lightning Event (PDT localization).

These cases below, initially sent with the Linux version of D2D, need to be modified to work with the Weather Event Simulator:

30 October 1998	Wichita Halloween Flood (ICT localization).
9 November 1998	Winter Severe Weather (FSD localization).

NWS Library of Locally Developed Cases

The NWS Training Division has created a Case Study Library, which is a repository of locally-developed Weather Event Simulator (WES) compatible cases for use in NWS offices for training and research. The purpose of this library is to facilitate the exchange of WES cases between NWS offices. Cases in the Case Study Library are being offered in addition to the WES cases developed by COMET and WDTB (see Nationally Distributed Cases above). The SOO Science and Training Resource Center Website at *http://www.comet.ucar.edu/resources/cases/wes/soo_csl/index.htm* contains a comprehensive list of WES cases. Order these cases by sending the case name and date with your name, FedEx address and phone number to: wes_orders@comet.ucar.edu.